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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/628,424	07/29/2003	Jeffrey A. Read	ARL 01-37 5300	
21364 II S A D M V D F	7590 12/20/2007 ESEARCH LABORATO	EXAMINER		
ATTN AMSRL CS CC IP			RHEE, JANE J	
2800 POWDER MILL RD ADELPHI, MD 207831197			ART UNIT	PAPER NUMBER
ADEEI III, WIL	J 201031171		1795	
			MAIL DATE	DELIVERY MODE
			12/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/628,424	READ, JEFFREY A.			
		Examiner	Art Unit			
		Jane Rhee	1795			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status			•			
2a)⊠	Responsive to communication(s) filed on 11 Oct. This action is FINAL . 2b) This Since this application is in condition for allowant closed in accordance with the practice under Expression 11 oct.	action is non-final. nce except for formal matters, pro				
Dispositi	on of Claims					
4) Claim(s) 13-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 13-17 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers	•				
10) 🗌	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the correction of the correction of the correction of the oath or declaration is objected to by the Example 1.	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

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DETAILED ACTION

Rejection Withdrawn

1. The 35 U.S.C. 102(b) rejection of claims 13-17 anticipated by Bowden et al. has been withdrawn due to applicant's amendments filed on 10/9/2007.

New Rejections

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 13-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Inoue et al. (6506520).

As to claims 13-17, Inoue et al. discloses a lithium oxygen battery comprising an electrolyte solution, the battery comprising a lithium metal containing anode (col. 4 lines 11-45), a cathode comprising carbon (col. 7 lines 1-5), the electrolyte comprising a lithium salt LiPF6 (col. 8 lines 6-9), and a non-aqueous solvent comprising dimethoxyethane and ethylene carbonate (col. 7 line 50-col. 8 lines 1-5).

As to the group of solvents having an oxygen solubility of greater than 0.1632ccO2/cc solvent at STP, since Inoue discloses DME the same material desired by the applicant comprising an oxygen solubility of greater than 0.1632ccO2/cc solvent

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at STP, it is inherent that Inoue discloses a non-aqueous solvent having an oxygen solubility of greater than 0.1632ccO2/cc solvent at STP.

As to the solvents having an oxygen solubility of less than 1150cc O2/cc at STP, since Inoue discloses ethylene carbonate, the same material desired by the applicant comprising the an oxygen solubility of less than 1150cc O2/cc at STP, it is inherent that Inoue discloses a non aqueous solvent comprising an oxygen solubility of less than 1150cc O2/cc at STP.

As to wherein the oxygen solubility of the solvent combination is at least 0.1150cc/O2/cc at STP and wherein oxygen is reduced at a cathode surface of the metal oxygen battery to produce O^-2 or O2^-2 ions and increase in the amount of dissolved oxygen in the electrolyte increases the specific capacity of the cathode, since Inoue discloses the same materials for the aqueous solvent desired by the applicant, it is inherent that the oxygen solubility of the solvent combination is at least 0.1150cc/O2/cc at STP and wherein oxygen is reduced at a cathode surface of the metal oxygen battery to produce O^-2 or O2^-2 ions and increase in the amount of dissolved oxygen in the electrolyte increases the specific capacity of the cathode.

Response to Arguments

3. Applicant's arguments with respect to claims 13-17 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jane Rhee whose telephone number is 571-272-1499. The examiner can normally be reached on M-F 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jane Rhee

December 13,2007

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